

FIG. 1 Prove Ant

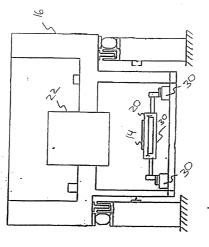
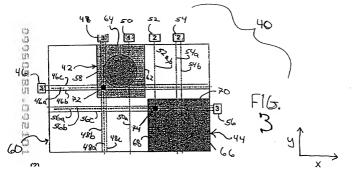
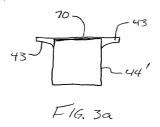
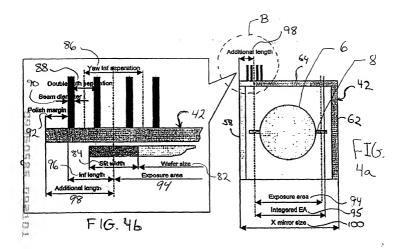


FIG. 2 From Aut







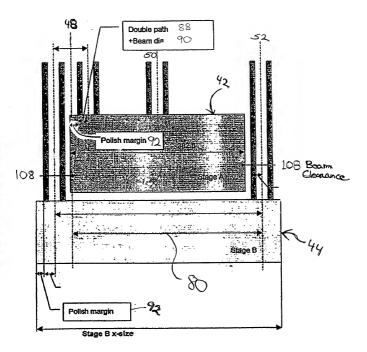
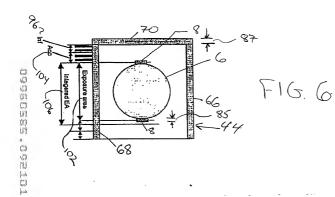
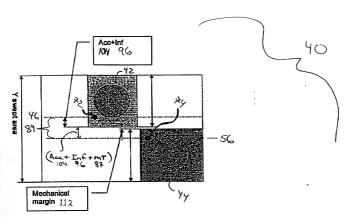
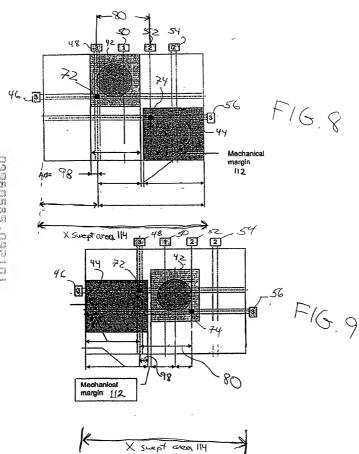


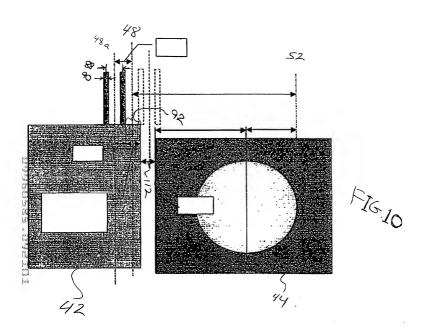
FIG.5

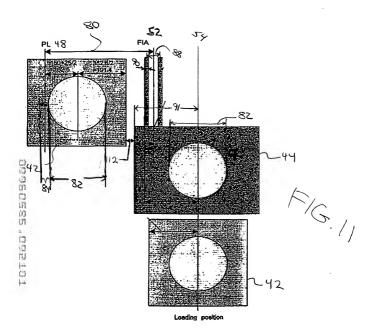




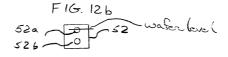
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466,486,566 46,48,566



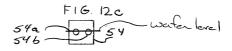


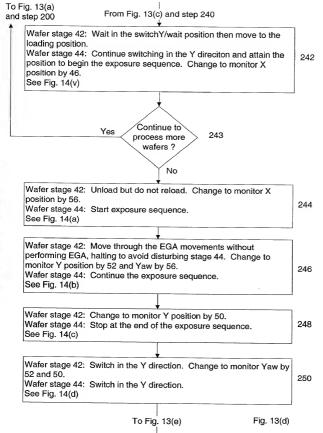
FIG. 12d 500 water leve (

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Wafer stage 42: Perform loading. Monitor X position by 56a changing to 56, Y position by 54 and Yaw by 54.	
Wafer stage 44: Stopped to begin exposure sequence if loaded with a wafer. Monitor X position by 46, Y position by 48, and Yaw by 48. See Fig. 14(a)	20
	ļ
Wafer stage 42: Start EGA. Change to monitor Y position by 52 and Yaw by 56. Halt movement when necessary to avoid disturbing stage 44. Wafer stage 44: Continue exposing if loaded.  See Fig. 14(b)	20
Wafer stage 42: Continue EGA. Change to monitor Y position by 50. Wafer stage 44: Stopped at the end of the exposure sequence. See Fig. 14(c)	20
Wafer stage 42: End EGA. Begin switching in the Y direction. Change to monitor Yaw by 52 and 50. Wafer stage 44: Switch in the Y direction. See Fig. 14(d)	20
	1
Wafer stage 42: Switch in the Y direction. Change to monitor X position by 56a. Wafer stage 44: Wait to switch in the Y direction. Change to monitor Y position by 56c when 56c becomes available. See Fig. 14(e)	20
Wafer stage 42: Wait in the Y direction. Change to monitor X position by 46 and Yaw by 46 when 46 becomes available. Wafer stage 44: Switch in the Y direction. See Fig. 14(f)	210
Wafer stage 42: Switch in the Y direction. Wafer stage 44: Switch in the Y direction. Change to monitor X position by 56 and Yaw by 56. See Fig. 14(g)	212
To Fig. 13(b) Fig. 13(a)	

To Fig. 13(a) and step 200 Wafer stage 42: Switch in the X direction. Change to monitor Y position by 48c. Wafer stage 44: Wait for stage 42 to finish moving. Change to 214 monitor Y position by 48a. See Fig. 14(h) Wafer stage 42: Wait for stage 44 to finish moving. Wafer stage 44: Switch in the X direction. Change to monitor Y 216 position by 52. See Fig. 14(i) Wafer stage 42: Start exposure sequence. Change to monitor Y position by 48. Wafer stage 44: Switch in the X direction. Change to monitor Y 218 position by 54. See Fig. 14(j) Wafer stage 42: Start exposure sequence. Wafer stage 44: Load the wafer. 220 See Fig. 3 Wafer stage 42: Continue exposure sequence. Wafer stage 44: Continue loading. Change to monitor Y position by 222 52. See Fig. 14(I) Wafer stage 42: Continue exposure sequence. Wafer stage 44: Perform EGA. 224 See Fig. 14(m) Wafer stage 42: End exposure sequence. Wafer stage 44: Continue EGA. 226 See Fig. 14(n) Wafer stage 42: Stop in the safety position and wait for stage 44 to finish EGA. 228 Wafer stage 44: End EGA. See Fig. 14(o) To Fig. 13(c)

Fig. 13(b)

Wafer stage 42: Stop in the safety postiion. Wafer stage 44: Switch in the X direction. See Fig. 14(p)
Wafer stage 42: Switch in the X direction. Change to monitor Y position by 50. Wafer stage 44: Wait for 48a to become available to control Y position. Resume switching in the X direction. See Fig. 14(q)
Wafer stage 42: Continue switching in the X direction. Wafer stage 44: Wait in the switch X/wait position. Change to monitor Y postiion by 48a. See Fig. 14(r)
<b>.</b>
Wafer stage 42: Continue switching in the X direction. Change to monitor Y position by 52. Wafer stage 44: Wait in the switch X/wait position. Change to monitor Y position by 48 and Yaw by 48. See Fig. 14(s)
Wafer stage 42: Continue switching in the X direction. Change to
Wafer stage 44: Wait in the switch X/wait position.
monitor Y postion by 54 and Yaw by 54. Wafer stage 44: Wait in the switch X/wait position. See Fig. 14(t)
Wafer stage 44: Wait in the switch X/wait position.
Wafer stage 44: Wait in the switch X/wait position.  See Fig. 14(t)  Wafer stage 42: Switch in the Y direction. Change to monitor X position by 56a.  Wafer stage 44: Switch in the Y direction. Change to monitor X position by 56c.  See Fig. 14(u)
Wafer stage 44: Wait in the switch X/wait position.  See Fig. 14(t)  Wafer stage 42: Switch in the Y direction. Change to monitor X position by 56a.  Wafer stage 44: Switch in the Y direction. Change to monitor X position by 56c.



## From Fig. 13(d) Wafer stage 42: Switch in the Y direction. Change to monitor X position by 56a. Wafer stage 44: Pause and wait for 56c to become available to 252 control X position. See Fig. 14(e) Wafer stage 42: Pause and wait for 46 to become available to control X position. 254 Wafer stage 44: Switch in the Y direction. See Fig. 14(f) Wafer stage 42: Switch in the Y direction. Wafer stage 44: Switch in the Y direction. Change to monitor X 256 position by 56 and Yaw by 56. See Fig. 14(g) Wafer stage 42: Switch in the X direction. Change to monitor Y position by 48c. Wafer stage 44: Pause and wait for stage 42 to stop moving. 258 Change to monitor Y position by 48b. See Fig. 14(h) Wafer stage 42: Pause switching in the X direction and wait for stage 44 to stop moving. Wafer stage 44: Switch in the X direction. Change to monitor Y 260 position by 52. See Fig. 14(i) Wafer stage 42: Change to monitor Y position by 48.

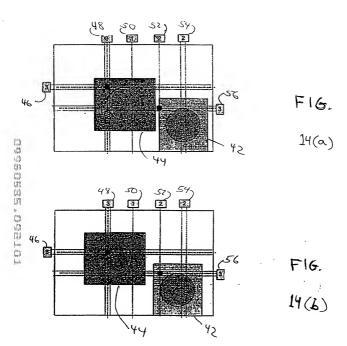
Fig. 13(e)

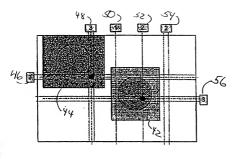
position by 54. See Fig. 14(j)

End Process

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Wafer stage 44: Remofe exposed wafer. Change to monitor Y





F16. 14(c)

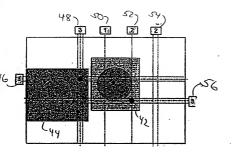


FIG. 14(d)

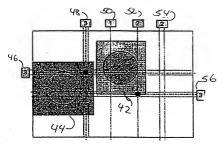


FIG. 14(e)

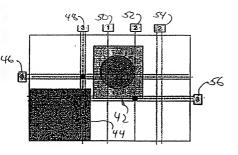


FIG. 14(f.).

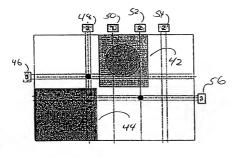


FIG. 14(g)

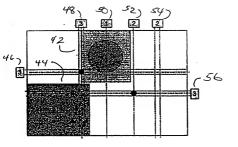
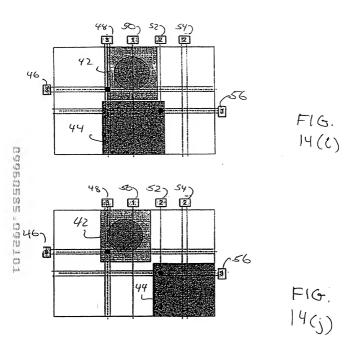
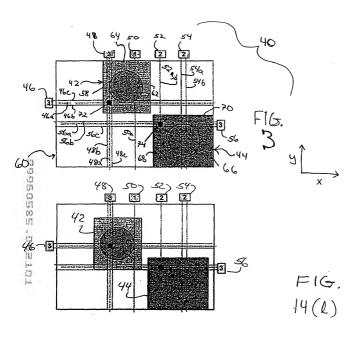
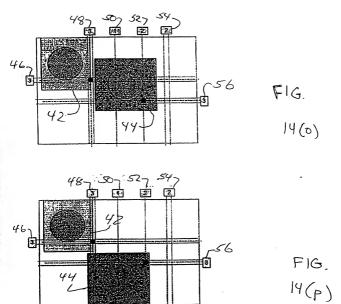
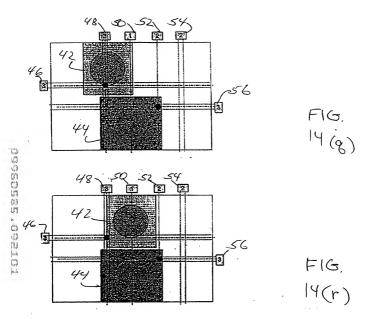


FIG. 14(h)









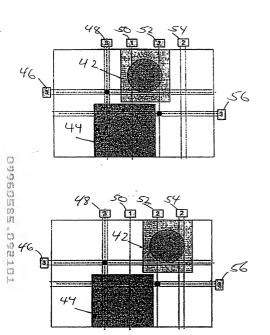


FIG. 14(s)

-16. 14(4)



FIG. 14(v)